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**Zetterlund**

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(54) **TRANSPORTATION BOX FOR TECHNICAL EQUIPMENT**

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(Continued)

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See application file for complete search history.

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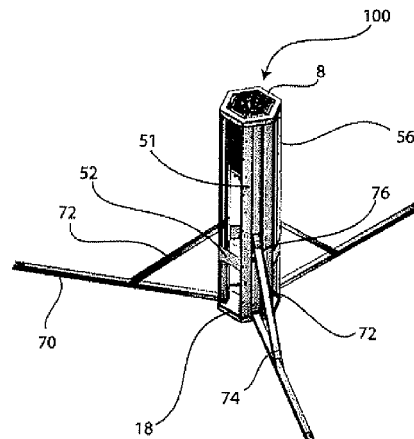
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(57) **ABSTRACT**

The present invention relates to a transportation box **100** for technical equipment **200**, said transportation box in the orientation intended for use comprising: —a first, upper end frame **8**, said first end frame having a hexagonal circumference and comprising six vertices **1,2,3,4,5,6** and six edges **11,12,13,14,15,16**; —a second, lower end frame **18**, said second end frame having a hexagonal circumference and comprising six vertices **21,22,23,24,25,26** and six edges **31,32,33,34,35,36**; —said first and said second end frames being connected by six longitudinal corner elements **41,42,43,44,45,46**; —each said corner element extending from one vertex of said first end frame **8** to one vertex of said second end frame **18**; —said transportation box thereby comprising six longitudinal side sections **51,52,53,54,55,56**; —wherein three of said six longitudinal side sections are leg sections **51,53,55**, each leg section comprising a leg assembly **60**; —wherein each leg assembly **60** comprises an extendable leg **70** being adapted to be able to switch between a collapsed state, in which the leg is accommodated in said corresponding leg section **51,53,55**; and an extended state, in which said leg is extending outward from said leg section **51,53,55** to provide support for said transportation box when arranged in an upright position; —wherein each said leg assembly **60** comprises locking means **110** for releasable locking its corresponding leg in its extended state; —wherein any two of said three leg sections **51,53,55** are arranged on either side of a side section which is not a leg section **52,54,56**.

**16 Claims, 7 Drawing Sheets**



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**F21V 17/00** (2006.01)  
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**H02G 3/04** (2006.01)

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**2585/6877** (2013.01); **B65D 2585/86** (2013.01);  
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**H02G 3/0493** (2013.01)

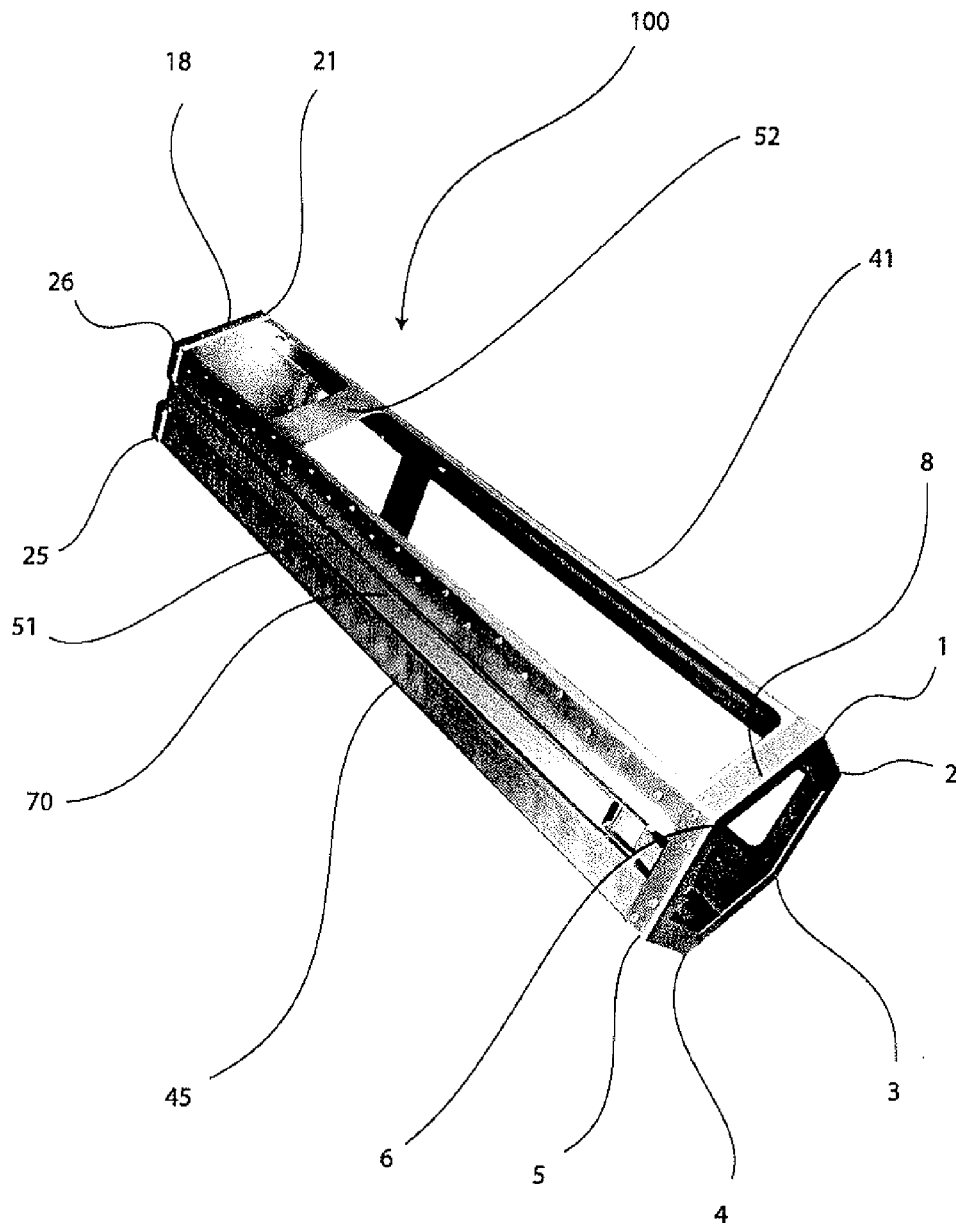
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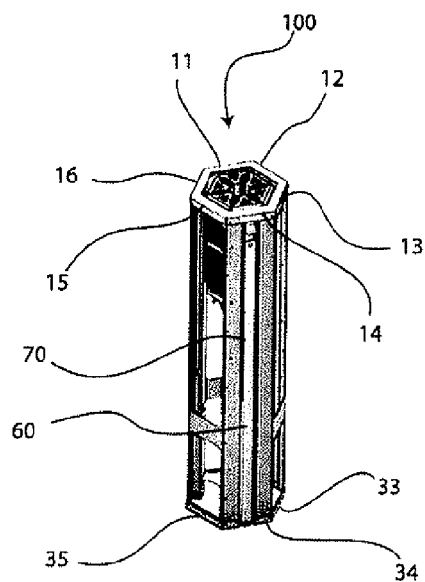
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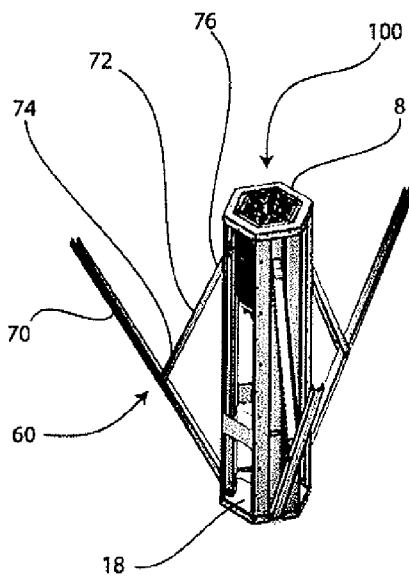
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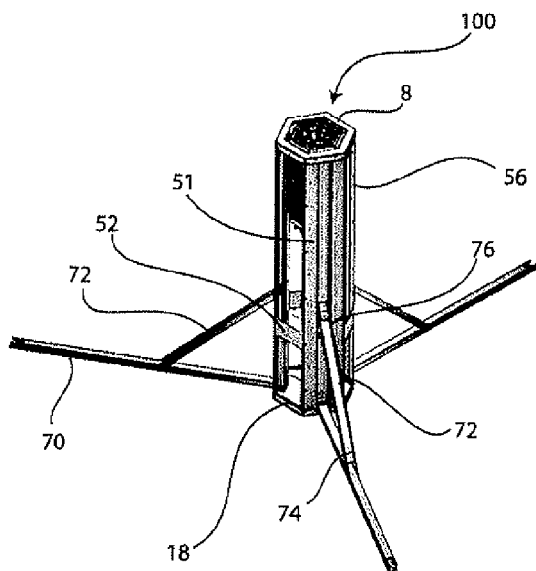
**Fig. 1**



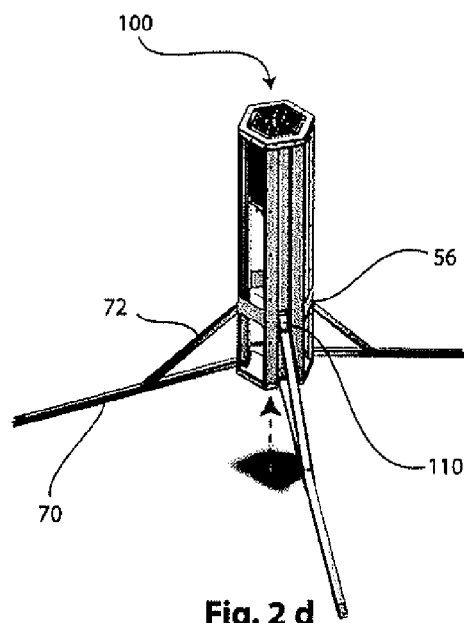
**Fig. 2 a**



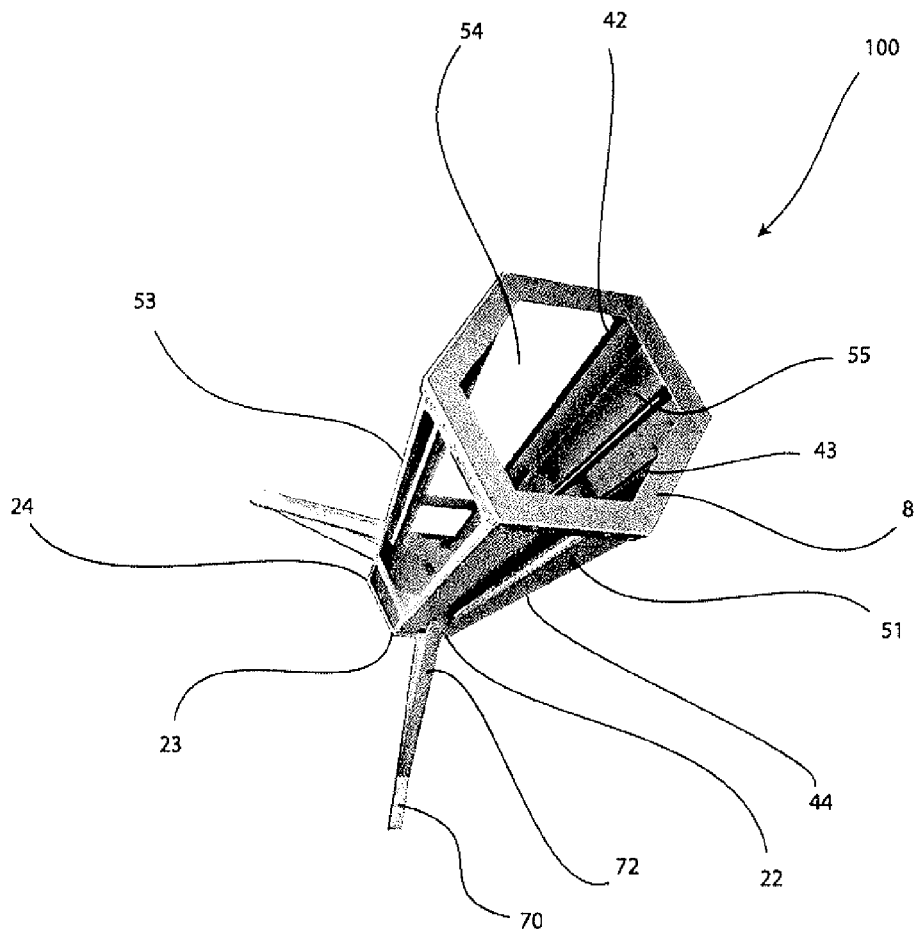
**Fig. 2 b**



**Fig. 2 c**



**Fig. 2 d**



**Fig. 3**

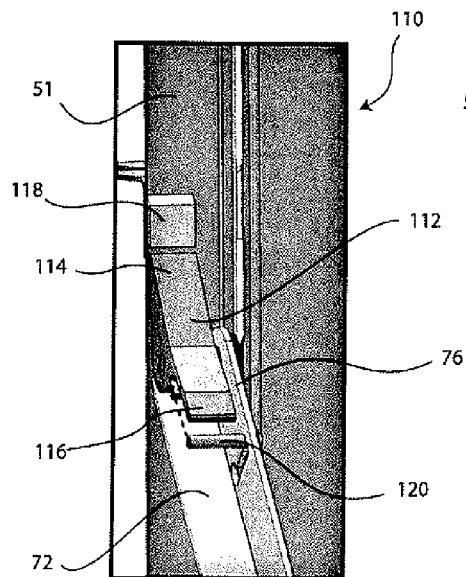


Fig. 4 a

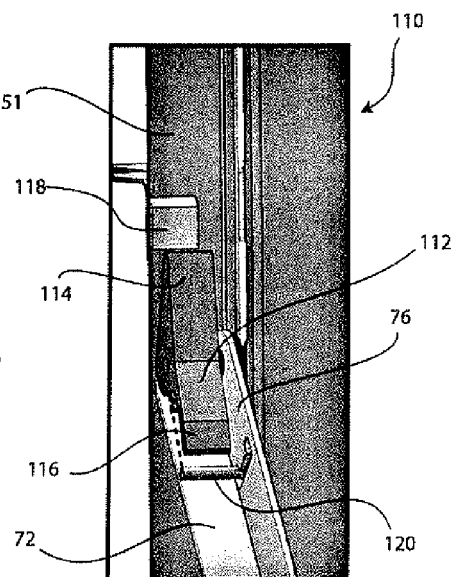


Fig. 4 b

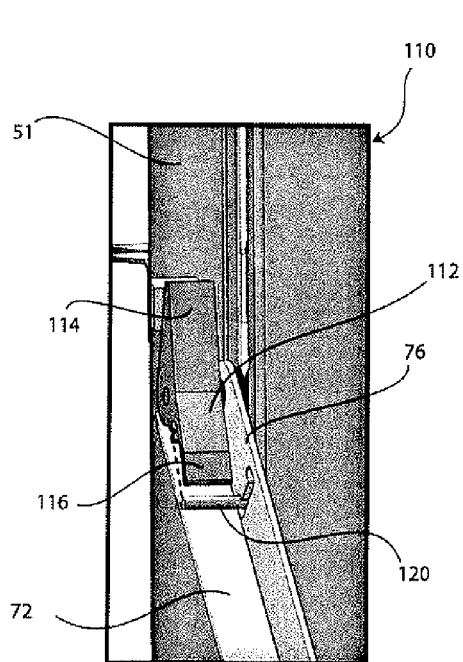


Fig. 4 c

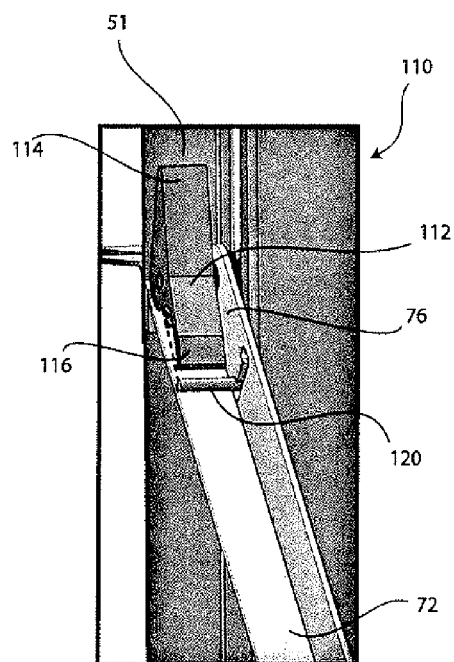
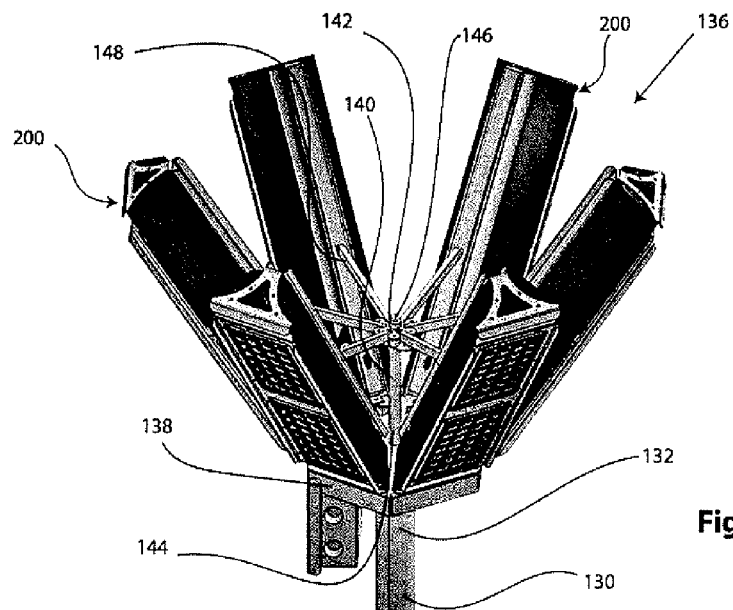
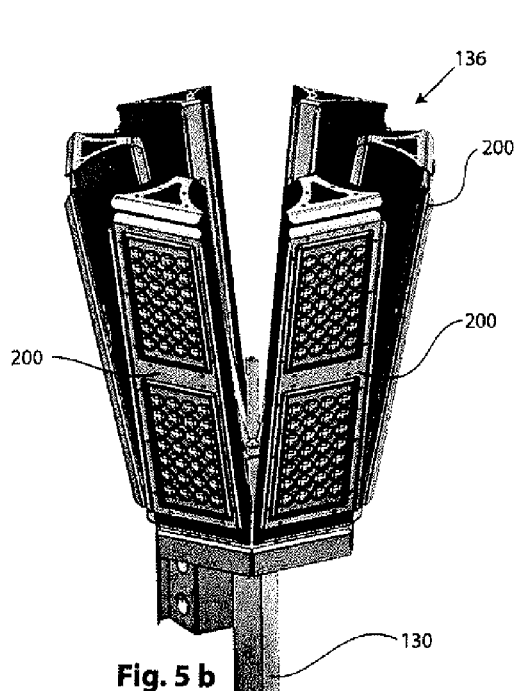


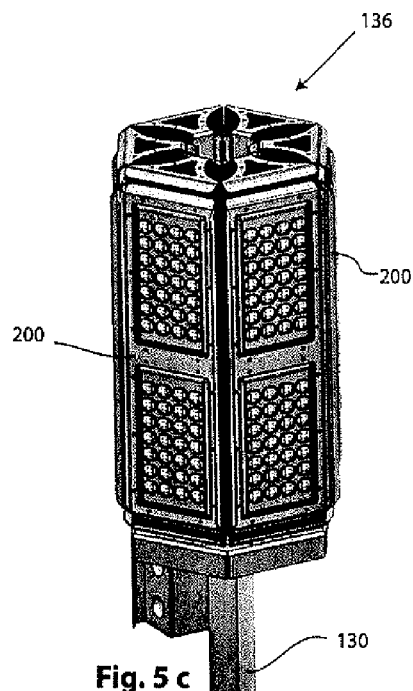
Fig. 4 d



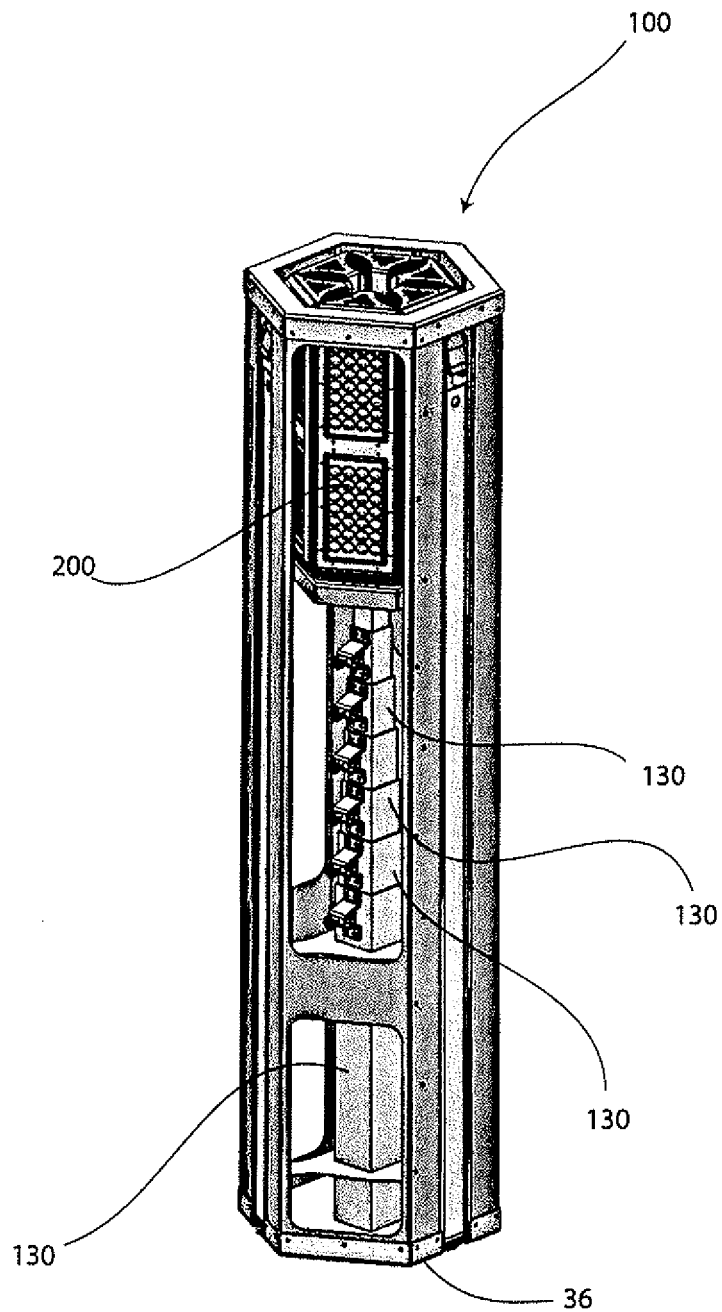
**Fig. 5 a**



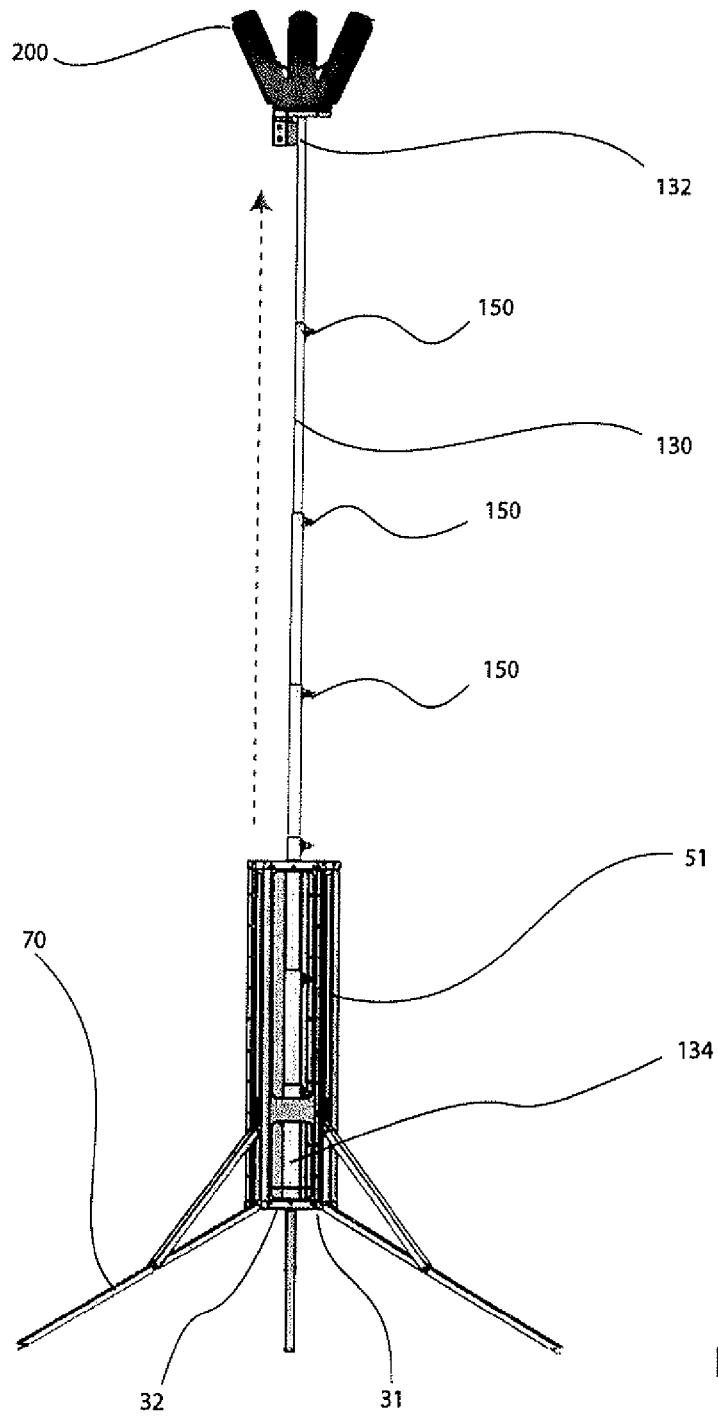
**Fig. 5 b**



**Fig. 5 c**



**Fig. 6**



**Fig. 7**

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## TRANSPORTATION BOX FOR TECHNICAL EQUIPMENT

### CROSS-REFERENCE TO RELATED APPLICATION

This application is the National Phase, under 35 U.S.C. §371(c), of International Application No. PCT/DK2013/050269, filed Aug. 22, 2013, the disclosure of which is incorporated herein by reference in its entirety.

### FIELD OF THE PRESENT INVENTION

The present invention relates in a first aspect to a transportation box for technical equipment. In a second aspect the present invention relates to a method of manufacturing the transportation box according to the first aspect. In a third aspect the present invention relates to the use of the transportation box according to the first aspect.

### BACKGROUND OF THE PRESENT INVENTION

In various situations in which technical equipment is needed, it is preferred to transport that equipment in transportation boxes for easy movement or transport of the technical equipment and for protection of the equipment which may be delicate and fragile.

This in not least the case in situations where the technical equipment is equipment for use in emergency settings, such as technical equipment for providing light, technical equipment for providing information to the public in the form of visual information printed on posters or displayed on e.g. a LED screen, technical equipment for providing acoustic information, such as in the form of a human voice by means of a loudspeaker and an amplifier.

In such an emergency situation it is of paramount importance that the technical equipment can be transported safe and easy to the site of the emergency and it is of paramount importance that the equipment can be set up easily and quickly.

In certain situations it will also be of paramount importance that the technical equipment can be raised over the ground to a certain height for easing the mediation of the information provided by that technical equipment to a large group of people.

US 2009/0095762 A1 discloses a storage container having a retractable stand which may be folded down to raise the container for increased convenience. The container described in US 2009/0095762 A1 is not suitable for use as an equipment for providing light or for mediating information to the public because the interior of the container does not allow to be exposed in a horizontal direction which means that the equipment for providing light or for mediating information to the public must be removed from the interior in order to provide the desired effect.

IL 74888 A discloses a foldable stand for lighting fixtures. However, the lighting stand of this publication does not comprise a protective casing for the lighting equipment in itself.

Hence, there exists a continued need for a transportation box for technical equipment which provides protection for that equipment and at the same time allows preparation of that equipment for use in a fast and safe way.

### SUMMARY

This need is fulfilled according to the present invention which in a first aspect relates to a transportation box **100** for

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technical equipment **200**, said transportation box in the orientation intended for use comprising:

a first upper end frame **8**, said first end frame having a hexagonal circumference and comprising six vertices **1,2,3,4,5,6** and six edges **11,12,13,14,15,16**;

a second lower end frame **18**, said second end frame having a hexagonal circumference and comprising six vertices **21,22,23,24,25,26** and six edges **31,32,33,34,35,36**;

said first and said second end frames being connected by six longitudinal corner elements **41,42,43,44,45,46**;

each said corner element extending from one vertex of said first end frame **8** to one vertex of said second end frame **18**;

said transportation box thereby comprising six longitudinal side sections **51,52,53,54,55,56**;

wherein three of said six longitudinal side sections are leg sections **51,53,55**, each leg section comprising a leg assembly **60**;

wherein each leg assembly **60** comprises an extendable leg **70** being adapted to be able switch between a collapsed state, in which the leg is accommodated in said corresponding leg section **51,53,55**; and an extended state, in which said leg is extending outward from said leg section **51,53,55** to provide support for said transportation box when arranged in an upright position;

wherein each said leg assembly **60** comprises locking means **110** for releasable locking its corresponding leg in its extended state;

wherein any two of said three leg sections **51,53,55** are arranged on either side of a side section which is not a leg section **52,54,56**.

In a second aspect, the present invention relates to a method of production of a transportation box **100** according to the first aspect of the present invention comprising the steps of:

providing individual elements making up said transportation box;

assembling said individual elements so as to obtain said transportation box.

In a third aspect, the present invention relates to the use of a transportation box according to the first aspect in a recreational situation; in an emergency situation; in a professional working situation; in a law and order reinforcement situation, such as a governmental law and order reinforcement situation or a law and order reinforcement situation involving regional or local authorities; or in a military situation.

The transportation box according to the first aspect of the present invention is highly versatile. It provides for accommodation of technical equipment, such as lighting means; loudspeakers; means for receiving or transmission of electromagnetic radiation, such as antennas or parabolic dishes etc.

Furthermore, it provides a fast and easy preparation of such equipment for use, such as in for example in a recreational situation; in an emergency situation; in a professional working situation; or in a governmental law and order reinforcement situation.

Finally, the transportation box according to the first aspect of the present invention does not take up much space when not in use, and therefore the transportation box is easy to store and ship.

### BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will become more fully understood from the detailed description given below. The accompanying drawings are given by way of illustration only, and are not limiting of the invention in any way. In the accompanying drawings:

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FIG. 1 shows a perspective view of a transportation box according to the first aspect of the present invention.

FIGS. 2a-2d shows the process of setting up a transportation box according to the first aspect of the present invention.

FIG. 3 shows a perspective view seen from above of a transportation box according to the first aspect of the present invention.

FIGS. 4a-4d illustrate the function of a locking system of a transportation box according to the first aspect of the present invention.

FIGS. 5a-5c illustrate the function of an unfolding device of a transportation box according to the first aspect of the present invention.

FIG. 6 shows a perspective view of a transportation box according to the first aspect of the present invention comprising technical equipment arranged on a telescopic pole in its collapsed state.

FIG. 7 shows a perspective view of a transportation box according to the first aspect of the present invention comprising technical equipment arranged on a telescopic pole in a state ready for use.

#### DETAILED DESCRIPTION OF THE PRESENT INVENTION

##### The Present Invention According to a First Aspect

As mentioned above, the present invention in a first aspect relates to a transportation box 100 for technical equipment 200, said transportation box in the orientation intended for use comprising:

a first upper end frame 8, said first end frame having a hexagonal circumference and comprising six vertices 1,2,3,4,5,6 and six edges 11,12,13,14,15,16;

a second lower end frame 18, said second end frame having a hexagonal circumference and comprising six vertices 21,22,23,24,25,26 and six edges 31,32,33,34,35,36;

said first and said second end frames being connected by six longitudinal corner elements 41,42,43,44,45,46;

each said corner element extending from one vertex of said first end frame 8 to one vertex of said second end frame 18;

said transportation box thereby comprising six longitudinal side sections 51,52,53,54,55,56;

wherein three of said six longitudinal side sections are leg sections 51,53,55, each leg section comprising a leg assembly 60;

wherein each leg assembly 60 comprises an extendable leg 70 being adapted to be able to switch between a collapsed state, in which the leg is accommodated in said corresponding leg section 51,53,55; and an extended state, in which said leg is extending outward from said leg section 51,53,55 to provide support for said transportation box when arranged in an upright position;

wherein each said leg assembly 60 comprises locking means 110 for releasable locking its corresponding leg in its extended state;

wherein any two of said three leg sections 51,53,55 are arranged on either side of a side section which is not a leg section 52,54,56.

The transportation is suitable for transportation of technical equipment, such as lighting equipment or equipment for providing information to the public, such as loudspeakers or LCD screen for e.g. emergency situations.

The transportation box according to the first aspect according comprises an upper and a lower hexagonal end frame connected vertex-by-vertex to each other by six longitudinal corner elements. This way the transportation box comprises

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six longitudinal side sections, of which every second side section, i.e. three side sections are leg sections each comprising a leg assembly.

The end sections 8,18 may be of regular hexagonal shape in which every edge having the same dimension, or it may be of an irregular hexagonal shape, in which some sides 11,13,15 or 31,33,35 are longer or shorter than the other sides 12,14,16 or 32,34,36, respectively.

Each leg assembly 60 comprises an extendable leg 70. The extendable leg being adapted to be able to switch between a collapsed state, in which the leg is accommodated in said corresponding leg section 51,53,55; and an extended state, in which said leg is extending outward from said leg section 51,53,55.

This feature implies that in the transportation box according to the first aspect of the present invention in its collapsed state, every second side section function as accommodation for an extendable leg. The technical equipment carried within the interior of the transportation box, such as lighting means, will be easily and fast prepared for use, simply by changing the state of one or more of the three legs from a collapsed state to an expanded state. If all three legs are brought into their respective expanded states the transportation box will comprise a stand carrying the technical equipment in an upright orientation.

In the present description and in the appended claims, the term "in the orientation intended for use" shall be interpreted as being the orientation in which the six longitudinal corner element are essentially vertically oriented and such that in case the legs are brought to the expanded state, the legs expand from the lower part of the box.

In one embodiment of the first aspect of the present invention, each said leg assembly comprises locking means for releasable locking said leg in its collapsed state.

This feature will be advantageous because it secures that during transport, no legs are allowed to change its position from a collapsed state to an expanded state. Hence, the technical equipment will remain protected by the integrity of the six longitudinal side sections.

In one embodiment of the first aspect of the present invention each said leg assembly comprises:

said leg 70, being at its one end pivotally attached to the leg section 51,53,55 corresponding to said leg assembly at a position proximate to said second end frame 18, such as at the second end frame 18 corresponding to said leg assembly 60;

a support strut 72 having two ends; a first end 74 being pivotally attached to said leg 70; and a second end 76 being slidable attached to the leg section 51,53,55.

Such a leg assembly has proven easy and cost-efficient to manufacture. Furthermore, such a design is sturdy in use and the corresponding leg is easy to bring from a collapsed state to an expanded state and vice-versa.

The term "proximate to said second end frame" shall in the present description and in the appended claims be understood to mean that the position at which the said leg is pivotally attached to the leg section is a position corresponding to the lower 30% of the longitudinal extension of said leg section.

In one embodiment of the first aspect of the present invention the locking means 110 of the leg assembly comprising: a locking element 112 having a first end 114 and a second end 116;

a locking plate 118 being arranged at said leg section 51,53,55 and being adapted to engage with said first end 114 of said locking element 112 so as to form a locking of said leg 70;

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said locking element **112** being pivotally mounted on said second end **76** of said support strut **72** at a position between said first end **114** and said second end **116** of said locking element **112**;

a safety pin **120**;

said safety pin being adapted to be switched between a locking position in which said safety pin prevents un-engagement of said locking element **112** with said locking plate **118** by engaging said locking pin with said second end **116** of said locking element **112**; and an unlocking position in which said safety pin allows un-engagement of said locking element **112** with said locking plate **118**.

This type of locking means has proven fail-safe. Its function is intuitive and easy to comprehend by an unskilled user. Further, this design is easy and cost-efficient to manufacture.

In one embodiment of the first aspect of the present invention, the safety pin **120** is spring loaded so as to hold it in place in its locking position or in its unlocking position.

Such a design has proven beneficial for its simplicity.

In respect of each leg assembly **60**, the angle between said corresponding side section **51,52,53,54,55,56** and said leg **70** in its expanded and locked state is in one embodiment of the first aspect of the present invention 90-175°, such as 95-170°, for example 100-165°, e.g. 105-160°, such as 110-155°, for example 115-150°, such as 120-145°, for example 125-140°, such as 130-135°.

These angles secure that the legs are extending perpendicular to the longitudinal direction of the transportation box of the present invention, or extending downwards from the body of the transportation box, thus providing excellent support to the transportation box in its upright position.

In one embodiment of the first aspect of the present invention the transportation box comprises one or more technical equipment **200**.

In one embodiment of the first aspect of the present invention, the one or more technical equipment is selected from the group comprising: lighting means; loudspeakers; means for receiving or transmission of electromagnetic radiation, such as antennas or parabolic dishes, water purification devices, electrical generators, such as a diesel generator, solar cells, or a fuel cell stack.

In one embodiment of the first aspect of the present invention, the transportation box furthermore comprises means for supplying electrical energy to said technical equipment.

In one embodiment of the first aspect of the present invention said means **90** for supplying electrical energy is selected from the group comprising: a battery, an accumulator, a generator coupled to a combustion engine, such as a petrol or a diesel engine, a fuel cell stack.

In one embodiment of the first aspect of the present invention, the number of equipment is 1, 2, 3, 4, 5 or 6.

In one embodiment of the first aspect of the present invention the number of technical equipment is two or more and wherein said two or more technical equipment being essentially identical.

Seeing that the use of the transportation box according to the present invention is extremely versatile, it is preferred to equip said box with more than one item of technical equipment. Such equipment may be three loudspeakers arranged to direct sound in three different directions, each direction being angle approximately 120° relative to the other directions. Alternatively, the box may be equipped with three lighting means arranged to direct its light in three different directions, each direction being angle approximately 120° relative to the other directions.

Further, it is possible to equip the transportation box with different equipment, such as Information providing LED or

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LCD screens together with a loudspeaker system or with water purification facilities, electrical generators, such as a diesel generator, solar cells, or a fuel cell stack.

By integrating means **90** for supplying electrical energy to said technical equipment, the set-up of the transportation box to a state prepared for use will be extremely quick and easy, which may be very beneficial, e.g. in emergency situations.

In one embodiment of the first aspect of the present invention the transportation box comprises a telescopic pole **130** having a first end **132** connected to said one or more technical equipment, or adapted to be connected to said one or more technical equipment; and a second end **134** attached to said second end frame **18**, thereby allowing raising the position of said one or more technical equipment.

Such an embodiment may secure that the information provided by a technical equipment of said transportation box may reach a larger number of people because the technical equipment thereby is raised further from the ground.

In one embodiment of this embodiment said transportation box comprises two or more items of technical equipment and furthermore comprising an unfolding device **136** for folding out said two or more items of technical equipment; wherein said first end **132** of said telescopic pole being connected to a support plate **138** for supporting said two or more technical equipment;

said unfolding device **136** comprising a rod **140** having a first end **142** and a second end **144**;

said first end **142** of said rod **140** being connected to said support plate **138**;

wherein a hub **146** being slidable attached to said rod **140**;

said hub in respect of each of said two or more technical equipment comprises a pivotally connected girder **148**;

wherein each of said two or more technical equipment being pivotally connected at a lower end **160** to said support plate **138** of said first end **132** of said telescopic pole **130**; and being pivotally connected to said girder **148** at a higher position of said technical equipment **200**.

Such an embodiment is especially preferred, in cases, where the transportation box comprises e.g. six lighting devices symmetrically arranged within the transportation box. The unfolding device may secure that the light emitted from such six lighting devices is directed to the ground below, which may be a working place for paramedics or other emergency staff.

This embodiment may also be advantageous when used with only one item of technical equipment.

In one embodiment of this embodiment said transportation box comprises locking means **150** for locking said telescopic pole in a desired position.

The locking means will ensure that once locked, the telescopic pole will not alter its position.

In one embodiment of the first aspect of the present invention the transportation box is having a longitudinal extension from said first end frame **8** to said second end frame **18** of 90-155 cm, such as 95-150 cm, for example 100-145 cm, such as 105-140 cm, e.g. 110-135 cm, such as 115-130 cm, for example 120-125 cm.

In one embodiment of the first aspect of the present invention the transportation box is having a transverse extension from one vertex **1,2,3** or **11,12,13** of said end frame **8,18** to the oppositely arranged vertex **4,5,6** or **14,15,16** of said end frame **8,18** of 25-40 cm, such as 26-39 cm, e.g. 27-38 cm, such as 28-37 cm, for example 29-36 cm, such as 30-35 cm, e.g. 31-34 cm or 32-33 cm.

The above dimensions have proven practical and favorable. In some cases within the above ranges, more of such trans-

portation boxes may neatly be stacked on top of a EUR pallet. Hence, these dimensions provides for easy transportation and storage when not in use.

The Present Invention According to a Second Aspect

The present invention relates in a second aspect to a method of production of a transportation box **100** according to the first aspect, said method comprising the steps of:

- providing elements individual elements making up said transportation box;
- assembling said individual elements so as to obtain said transportation box.

In one embodiment, said assembling is performed by welding and/or riveting and/or bolting.

The above methods are simple and cost-efficient ways of manufacturing the transportation boxes according to the first aspect.

The Present Invention According to a Third Aspect

The present invention relates in a third aspect to the use of a transportation box according to the first aspect in a recreational situation; in an emergency situation; in a professional working situation; in a law and order reinforcement situation, such as a governmental or a law and order reinforcement situation involving regional or local authorities; or in a military situation.

The use may in one embodiment relate to providing light, providing acoustic signals, such as a voice mediating information to people, providing visual information, such as text displayed on a display screen, such as a TV screen or a monitor, providing water purification facilities, providing electrical generators, such as a diesel generator, solar cells, or a fuel cell stack.

Referring now in details to the drawings for the purpose of illustrating preferred embodiments of the present invention, a transportation box for technical equipment is illustrated in FIG. 1.

The transportation box **100** illustrated in FIG. 1 is lying down. The transportation box **100** comprises a first end frame **8**, a second end frame **18**, each having a hexagonal circumference. Each end frame **8,18** comprises six vertices **1,2,3,4,5,6** and **21,22,23,24,25,26** respectively. Likewise, each end frame **8,18** comprises six edges **11,12,13,14,15,16** and **31,32,33,34,35,36** respectively.

Corner elements **41,42,43,44,45,46** extends vertex-to-vertex between the end frames **8,18**. The area defined between one edge of the first end frame and the corresponding edge of the second end frame and on the one hand, and between adjacent corner elements on the other hand, defines a longitudinal side section of the transportation box. Hence, the transportation box comprises six longitudinal side sections. Three of these longitudinal side sections **51, 53** and **55** are leg sections.

FIG. 1 shows longitudinal side section **52** and leg section **51**. Leg section **51** comprises a leg assembly **60**, which in turn comprises an expandable leg **70**.

FIGS. **2a, 2b, 2c** and **2d** show the process of preparing the transportation box **100** for use. In FIG. **2a** the transportation box has been positioned in an erect orientation in which the longitudinal side sections **51,52,53,54,55,56** essentially are vertically oriented. FIG. **2a** shows a leg assembly facing the viewer.

In FIG. **2b** the legs of the leg sections **51,53,55** of the transportation box of FIG. **2a** are underway of being expanded. FIG. **2b** shows that the leg assembly **60** comprises a leg **70** and a support strut **72**. The leg **70** is at one end pivotally attached to the leg section at the second end frame **18**. The support strut **72** is pivotally attached at one of its ends **74** to said leg **70** approximately midway of the longitudinal

extension of said leg. The other end **76** of said support strut **72** is slidably attached to the corresponding side section.

In FIG. **2c** the legs **70** of the transportation box **100** are expanded to the degree that they lie parallel to the ground upon which the transportation box is sited.

In FIG. **2d** the body of the transportation box has been lifted. This implies that the legs **70** are moving further downward so that the locking means **110** (not shown) for locking the legs have locked the legs **70** in their expanded state.

FIG. **3** shows the transportation box **100** in its erect state in a perspective view from above. FIG. **3** shows the first end frame **8** connected at its vertices with the second end frame **18** by six corner elements **41,42,43,44,45,46**. The corner elements are designed so that three longitudinal side sections **52,54,56** expose the interior of the box **100**, whereas other three longitudinal side sections, viz. the leg sections **51,53,55** are fairly closed from the outside.

FIGS. **4a-4d** show a preferred locking means **110** for locking the legs **70** in a locked state when the legs are in an expanded position. The locking means **110** comprises a locking element **112** having an upper end **114** and another, lower end **116**. The locking element **112** is pivotally attached to the second end **76** of said support strut **72**. A locking plate **118** is fastened on the corresponding longitudinal leg section **51**. A safety pin **120** is spring loaded to engage in one of two positions, viz. a locking position and an unlocking position.

The second end **76** of the support strut **72** may slide up and down in relation to the leg section. In FIG. **4a** the second end **76** of the support strut is relatively low. The locking plate **118** is positioned above the locking element **112**. The safety pin **120** is in FIG. **2a** engaged in its locked position. This means that the locking element **120** is not capable of pivoting. Hence the locking plate **118** ensures that the second end **76** of the support strut is not allowed to slide further upward in relation to the leg section. Hence, the leg **70** is locked in its expanded position.

In FIG. **4b** the safety pin has been engaged in its unlocking position. This allows the locking element **112** to pivot. By pivoting the locking element **112**, the locking element is capable of sliding further upward, thus passing the locking plate **118**. This situation is depicted in FIGS. **4c** and **4d**.

FIG. **5a** shows a preferred embodiment of the transportation box **100** according to the present invention. The transportation box **100** comprises a telescopic pole **130** which is extendable from the interior of the box in an upward direction.

The telescopic pole **130** comprises a first, upper end **132**. On top of the first end of the pole is arranged a support plate **138**. The support plate has a hexagonal shape and at its six sides are pivotally attached six items of technical equipment, in this case in the form of lighting means. Each lighting means, besides of being pivotally attached at its lower end, also is pivotally attached to a girder **148** at one end of said girder. The other end of the girder is pivotally attached to a hub, to which the other five corresponding girders, in respect of the other five items of technical equipment, are also attached. The central part of the hub is slidable attached to the rod **140**. The rod **140** is at its other end **144** accommodated within the telescopic pole **130**.

By sliding the hub **146** up and down, it is possible to angle the technical equipment, in this case in the form of lighting devices to a more or less degree and accordingly adjust the direction of the emitted light.

FIG. **5b** shows the unfolding device **136** of the transportation box of FIG. **5a** in a partly collapsed state. FIG. **5c** shows the unfolding device **136** of the transportation box of FIG. **5a** in a fully collapsed state.

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FIG. 6 shows a transportation box 100 comprising the unfolding device 136 of FIG. 5a-5c in a fully collapsed state in the sense that the expandable legs are in a collapsed state and in the sense that the telescopic pole is in a collapsed state.

FIG. 7 shows the transportation box 100 of FIG. 6 in its fully expandable state in the sense that the expandable legs are in an expanded state and in the sense that the telescopic pole is in an expanded state. FIG. 7 also shows locking means 150 for locking the telescopic pole.

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List of reference numerals

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1, 2, 3, 4, 5, 6	Vertices of first end frame
8	First end frame
11, 12, 13, 14, 15, 16	Edges of first end frame
18	Second end frame
21, 22, 23, 24, 25, 26	Vertices of second end frame
31, 32, 33, 34, 35, 36	Edges of second end frame
41, 42, 43, 44, 45, 46	Corner elements
51, 53, 55	Longitudinal side sections being leg sections
52, 54, 56	Longitudinal side sections not being leg sections
60	Leg assembly
70	Extendable leg
72	Support strut of leg assembly
74	First end of support strut
76	Second end of support strut
100	Transportation box
110	Locking means for locking legs in expanded state
112	Locking element of locking means 110
114	First end of locking element
116	Second end of locking element
118	Locking plate
120	Safety pin
130	Telescopic pole
132	First end of telescopic pole
134	Second end of telescopic pole
136	Unfolding device
138	Support plate of telescopic pole
140	Rod of unfolding device
142	First end of rod of unfolding device
144	Second end of rod of unfolding device
146	Hub of unfolding device
148	Girder of unfolding device
150	Locking means for telescopic pole
160	Lower end of connection of technical equipment
200	Technical equipment

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The invention claimed is:

1. A transportation box 100 for technical equipment 200, said transportation box in the orientation intended for use comprising:

a first, upper end frame 8, said first end frame having a hexagonal circumference and comprising six vertices 1, 2, 3, 4, 5, 6 and six edges 11, 12, 13, 14, 15, 16;

a second, lower end frame 18, said second end frame having a hexagonal circumference and comprising six vertices 21, 22, 23, 24, 25, 26 and six edges 31, 32, 33, 34, 35, 36;

said first and said second end frames being connected by six longitudinal corner elements 41, 42, 43, 44, 45, 46; each said corner element extending from one vertex of said first end frame 8 to one vertex of said second end frame 18;

said transportation box thereby comprising six longitudinal side sections 51, 52, 53, 54, 55, 56;

wherein three of said six longitudinal side sections are leg sections 51, 53, 55, each leg section comprising a leg assembly 60;

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wherein each leg assembly 60 comprises an extendable leg 70 being adapted to be able to switch between a collapsed state, in which the leg is accommodated in said corresponding leg section 51, 53, 55; and an extended state, in which said leg is extending outward from said leg section 51, 53, 55 to provide support for said transportation box when arranged in an upright position; wherein each said leg assembly 60 comprises locking means 110 for releasable locking its corresponding leg in its extended state;

wherein any two of said three leg sections 51, 53, 55 are arranged on either side of a side section which is not a leg section 52, 54, 56.

2. A transportation box 100 according to claim 1, wherein each said leg assembly comprises locking means 64 for releasable locking said leg in its collapsed state.

3. A transportation box according to claim 1, wherein each said leg assembly comprises:

said leg 70, being at its one end pivotally attached to the leg section 51, 53, 55 corresponding to said leg assembly at a position proximate to said second end frame 18; and a support strut 72 having a first end 74 being pivotally attached to said leg 70; and a second end 76 being slidable attached to the leg section 51, 53, 55.

4. A transportation box according to claim 3, wherein said locking means 110 comprises:

a locking element 112 having a first end 114 and a second end 116;

a locking plate 118 being arranged at said leg section 51, 53, 55 and being adapted to engage with said first end 114 of said locking element 112 so as to form a locking of said leg 70;

said locking element 112 being pivotally mounted on said second end 76 of said support strut 72 at a position between said first end 114 and said second end 116 of said locking element 112; and

a locking pin configured to be switched between a locking position in which said locking pin prevents un-engagement of said locking element 112 with said locking plate 118 by engaging said locking pin with said second end 116 of said locking element 112; and an unlocking position in which said locking pin allows un-engagement of said locking element 112 with said locking plate 118.

5. A transportation box according to claim 4, wherein said locking pin 120 is spring loaded so as to hold it in place in its locking position or in its unlocking position.

6. A transportation box according to claim 1, wherein in respect of each leg assembly 60, the angle between said corresponding side section 51, 52, 53, 54, 55, 56 and said leg 70 in its expanded and locked state is 90-175°.

7. A transportation box according to claim 1, wherein said transportation box is configured to accommodate technical equipment 200.

8. A transportation box according to claim 7, wherein said technical equipment is selected from the group consisting of lighting means; loudspeakers; means for receiving or transmission of electromagnetic radiation; water purification devices; electrical generators; solar cells; and a fuel cell stack.

9. A transportation box according to claim 7, further comprising means 90 for supplying electrical energy to said technical equipment.

10. A transportation box according claim 9, wherein said means 90 for supplying electrical energy is selected from the group consisting of a battery, an accumulator, a generator coupled to an internal combustion engine, and a fuel cell stack.

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**11.** A transportation box according to claim **7**, wherein said transportation box comprises a telescopic pole **130** having a first end **132** configured to be connected to said technical equipment; and a second end **134** attached to said second end frame **18**, thereby allowing raising the position of said technical equipment.

**12.** A transportation box according to claim **11**, wherein said transportation box comprises two or more items of technical equipment and further comprises an unfolding device **136** for folding out said two or more items of technical equipment; wherein:

said first end **132** of said telescopic pole is connected to a support plate **138** for supporting said two or more items of technical equipment;

said unfolding device **136** comprises a rod **140** having a first end **142** and a second end **144**;

said first end **142** of said rod **140** is connected to said support plate **138**;

wherein a hub **146** is slideably attached to said rod **140**;

said hub in respect of each of said two or more items of technical equipment comprises a pivotally connected girder **148**;

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wherein each of said two or more items of technical equipment is pivotally connected at a lower end **160** to said support plate **138** of said first end **132** of said telescopic pole **130**; and is pivotally connected to said girder **148** at a higher position of said technical equipment **200**.

**13.** A transportation box according to claim **12** wherein said transportation box comprises locking means **150** for locking said telescopic pole in a desired position.

**14.** A transportation box according to claim **1**, wherein said transportation box has a longitudinal dimension from said first end frame **8** to said second end frame **18** of 90-155 cm.

**15.** A transportation box according to claim **1**, wherein said transportation box having a transverse dimension from one vertex **1**, **2**, **3** or **11**, **12**, **13** of said end frame **8**, **18** to the oppositely arranged vertex **4**, **5**, **6** or **14**, **15**, **16** of said end frame **8**, **18** of 25-40 cm.

**16.** A transportation box according to claim **11**, wherein said technical equipment comprises two or more substantially identical items of technical equipment.

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